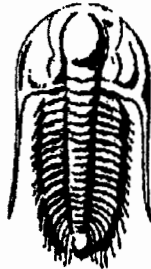


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NOV 06 2003
From
Confidential



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

CONFIDENTIAL

Prepared For: Murfin Drilling Co.

ORIGINAL 251 N Water Suite 300
Wichita, Ks. 67203
KCC

SEP 04 2002

ATTN: David Doyel

24-11s-20w CONFIDENTIAL

Schoen-Star Unit # 1-24

Start Date: 2002.07.29 @ 19:09:09

End Date: 2002.07.30 @ 02:36:09

Job Ticket #: 16483 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

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Murfin Drilling Co.

Schoen-Star Unit # 1-24

24-11s-20w

DST # 1

L-Kc-A,B,C & D

2002.07.29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Suite 300
Wichita, Ks. 67202
ATTN: David Doyel

Schoen-Star Unit # 1-24
24-11s-20w
Job Ticket: 16483 **DST#: 1**
Test Start: 2002.07.29 @ 19:09:09

GENERAL INFORMATION:

Formation: **L-Kc.-A,B,C & D**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: **20:43:39**
Time Test Ended: **02:36:09**

KCC
SEP 04 2002

Test Type: **Conventional Bottom Hole**
Tester: **John Schmidt**
Unit No: **18**
Reference Elevations: **1988.00 ft (KB)**
1983.00 ft (CF)
KB to GR/CF: **5.00 ft**

Interval: **3262.00 ft (KB) To 3344.00 ft (KB) (TVD)**
Total Depth: **3344.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**

CONFIDENTIAL

Serial #: 3017

Inside

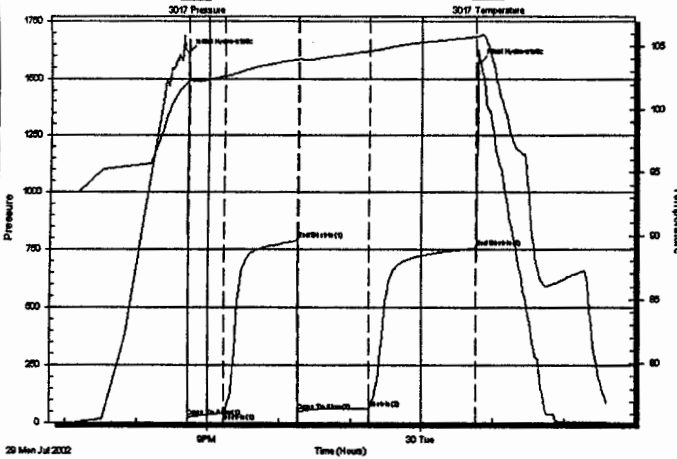
Press@RunDepth: **63.44 psig @ 3266.01 ft (KB)**
Start Date: **2002.07.29** End Date: **2002.07.30**
Start Time: **19:09:10** End Time: **02:36:09**

Capacity: **7000.00 psig**
Last Calib.: **2002.07.30**
Time On Btr: **2002.07.29 @ 20:43:09**
Time Off Btr: **2002.07.30 @ 00:48:09**

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TEST COMMENT: IF-Weak built to 4" in. IS- no blow
FF-Weak built to 7" in. FS-Weak blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.84	102.26	Initial Hydro-static
1	22.52	102.32	Open To Flow (1)
31	42.09	102.65	Shut-in(1)
92	790.60	103.98	End Shut-in(1)
93	47.53	103.99	Open To Flow (2)
153	63.44	104.63	Shut-in(2)
243	757.68	105.74	End Shut-in(2)
245	1569.50	105.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	Gassy Oil 10%gas 90%oil	0.90
160.00	gas in pipe	2.24

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.
250 N. Water Suite 300
Wichita, Ks. 67202
ATTN: David Doyel

Schoen-Star Unit # 1-24
24-11s-20w
Job Ticket: 16483 DST#: 1
Test Start: 2002.07.29 @ 19:09:09

Tool Information

Drill Pipe:	Length: 3115.00 ft	Diameter: 3.80 inches	Volume: 43.70 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 35000.00 lb
			<u>Total Volume: 44.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3262.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.02 ft			
Tool Length:	109.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3236.00		
S.I. Tool	5.00			3241.00		
HMV	5.00			3246.00		
Jars	5.00			3251.00		
Safety Joint	2.00			3253.00		
Packer	4.00			3257.00	27.00	Bottom Of Top Packer
Packer	5.00			3262.00		
Stubb	1.00			3263.00		
Perforations	2.00			3265.00		
C.O. Sub	1.00			3266.00		
Recorder	0.01	3017	Inside	3266.01		
Blank Spacing	62.00			3328.01		
C.O. Sub	1.00			3329.01		
Perforations	12.00			3341.01		
Recorder	0.01	13308	Outside	3341.02		
Bullnose	3.00			3344.02	82.02	Bottom Packers & Anchor
Total Tool Length:	109.02					

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.
250 N. Water Suite 300
Wichita, Ks. 67202

ATTN: David Doyel

Schoen-Star Unit # 1-24
24-11s-20w
Job Ticket: 16483 DST#: 1
Test Start: 2002.07.29 @ 19:09:09

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
145.00	Gassy Oil 10%gas 90%oil	0.895
160.00	gas in pipe	2.244

Total Length: 305.00 ft Total Volume: 3.139 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 3017

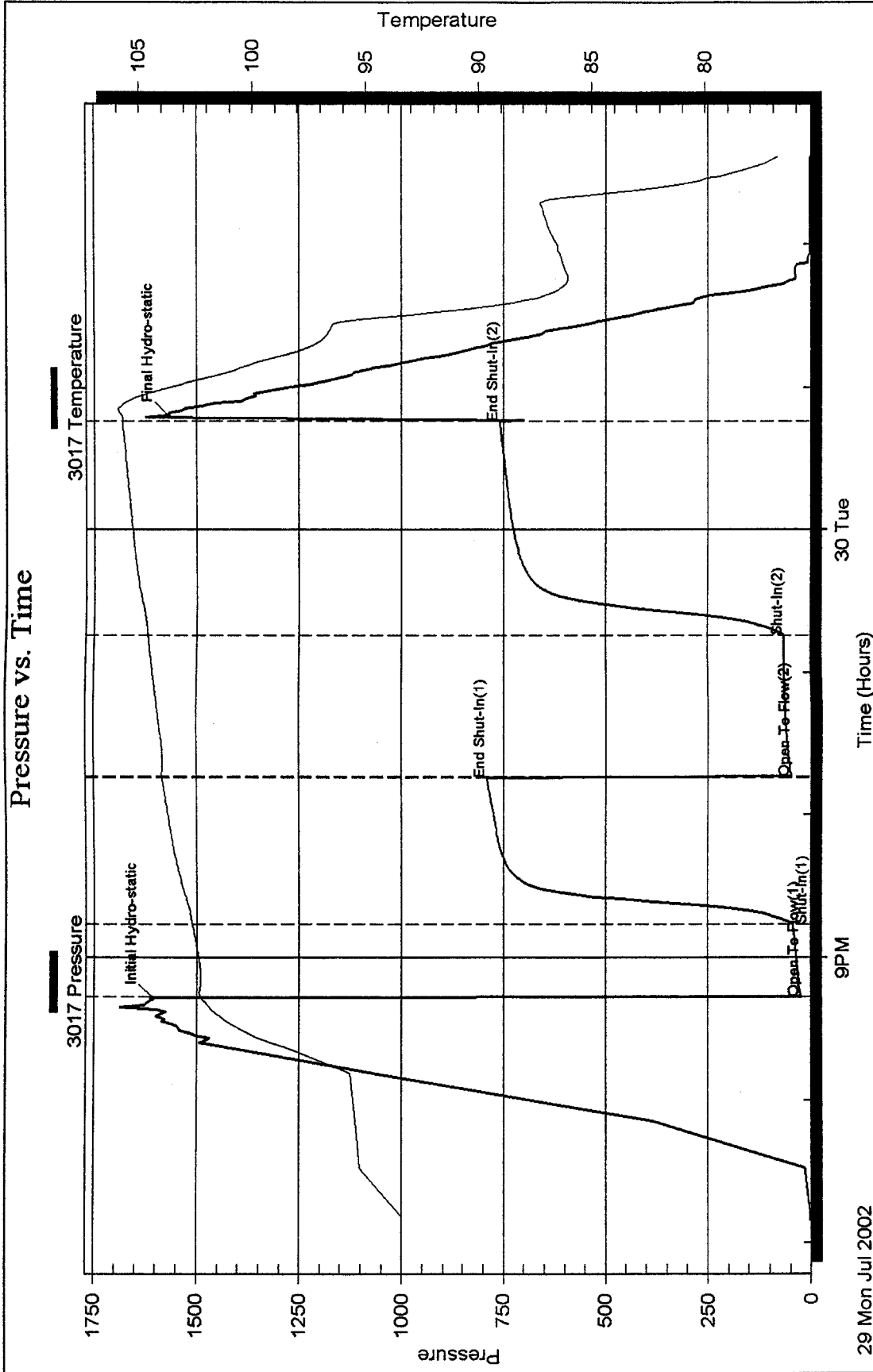
Inside

Murfin Drilling Co.

24--11s--20w

DST Test Number: 1

Pressure vs. Time

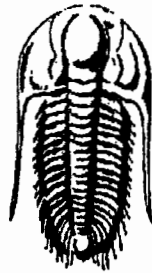


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Trilobite Testing, Inc

Ref. No: 16483

Printed: 2002.08.02 @ 13:34:47 Page 5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Suite 300
Wichita, Ks. 67202

ATTN: David Doyel

24--11s--20w

Schoen-Star Unit # 1-24

Start Date: 2002.07.30 @ 09:20:12

End Date: 2002.07.30 @ 16:21:12

Job Ticket #: 16484 DST #: 2

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Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water Suite 300
 Wichita, Ks. 67202
 ATTN: David Doyel

Schoen-Star Unit # 1-24
24-11s-20w
 Job Ticket: 16484 DST#: 2
 Test Start: 2002.07.30 @ 09:20:12

GENERAL INFORMATION:

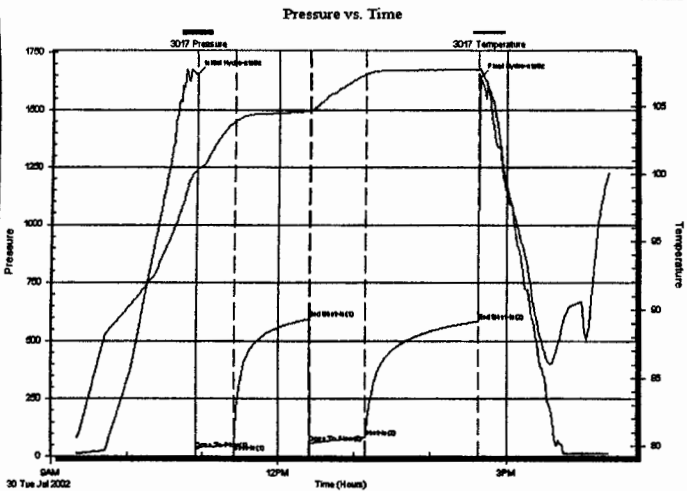
Formation: **L-Kc.-F**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **10:54:42**
 Tester: **John Schmidt**
 Time Test Ended: **16:21:12**
 Unit No: **18**
 Interval: **3340.00 ft (KB) To 3364.00 ft (KB) (TVD)**
 Reference Elevations: **1988.00 ft (KB)**
3364.00 ft (KB) (TVD)
1983.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **5.00 ft**

Serial #: 3017

Inside

Press@RunDepth: **82.30 psig @ 3343.01 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2002.07.30** End Date: **2002.07.30** Last Calib.: **2002.07.30**
 Start Time: **09:20:13** End Time: **16:21:12** Time On Btm: **2002.07.30 @ 10:54:12**
 Time Off Btm: **2002.07.30 @ 14:39:12**

TEST COMMENT: **F-Weak 1/2" blow** **ISI-no blow**
FSI-Weak Surf. blow **FF-no blow**



PRESSURE SUMMARY

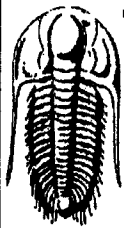
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.10	100.25	Initial Hydro-static
1	29.49	100.33	Open To Flow (1)
31	52.98	103.84	Shut-In(1)
90	594.06	104.65	End Shut-In(1)
91	56.85	104.65	Open To Flow (2)
135	82.30	107.33	Shut-In(2)
224	584.91	107.69	End Shut-In(2)
225	1642.06	107.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	S-O-stain muddy w ater 20%-M--80% W	0.37

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.
250 N. Water Suite 300
Wichita, Ks. 67202
ATTN: David Doyel

Schoen-Star Unit # 1-24
24-11s-20w
Job Ticket: 16484 DST#: 2
Test Start: 2002.07.30 @ 09:20:12

Tool Information

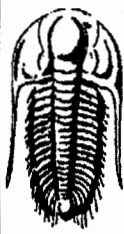
Drill Pipe:	Length: 3205.00 ft	Diameter: 3.80 inches	Volume: 44.96 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 35000.00 lb
			<u>Total Volume: 45.57 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3340.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.02 ft			
Tool Length:	46.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3319.00	
S.I. Tool	5.00			3324.00	
HMV	5.00			3329.00	
Safety Joint	2.00			3331.00	
Packer	4.00			3335.00	22.00 Bottom Of Top Packer
Packer	5.00			3340.00	
Stubb	1.00			3341.00	
Perforations	2.00			3343.00	
Recorder	0.01	3017	Inside	3343.01	
Perforations	18.00			3361.01	
Recorder	0.01	13308	Outside	3361.02	
Bullnose	3.00			3364.02	24.02 Bottom Packers & Anchor

Total Tool Length: 46.02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.
 250 N.Water Suite 300
 Wichita, Ks. 67202
 ATTN: David Doyel

Schoen-Star Unit # 1-24
24-11s-20w
 Job Ticket: 16484 **DST#: 2**
 Test Start: 2002.07.30 @ 09:20:12

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	30000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	S-O-stain muddy water 20%-M-80% W	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

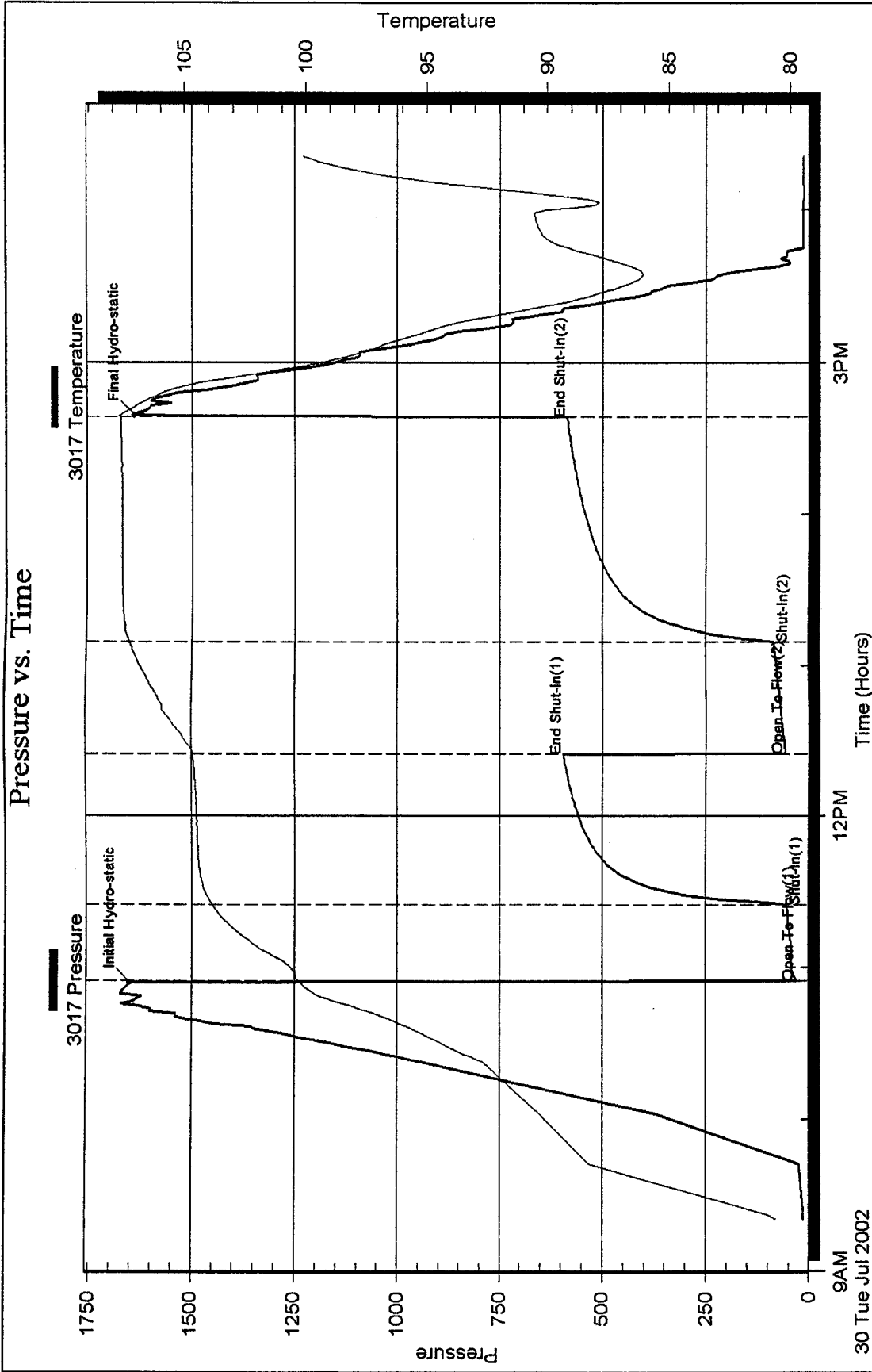
Serial #: 3017

Inside

Murfin Drilling Co.

24--11s--20w

DST Test Number: 2



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Trilobite Testing, Inc

Ref. No: 16484

Printed: 2002.08.02 @ 13:35:15 Page 5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Suite 300
Wichita, Ks. 67202

ATTN: David Doyel

24--11s--20w

Schoen-Star Unit # 1-24

Start Date: 2002.07.31 @ 05:00:04

End Date: 2002.07.31 @ 12:54:34

Job Ticket #: 16485 DST #: 3

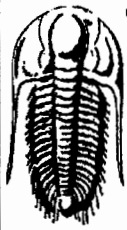
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DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Suite 300
Wichita, Ks. 67202
ATTN: David Doyel

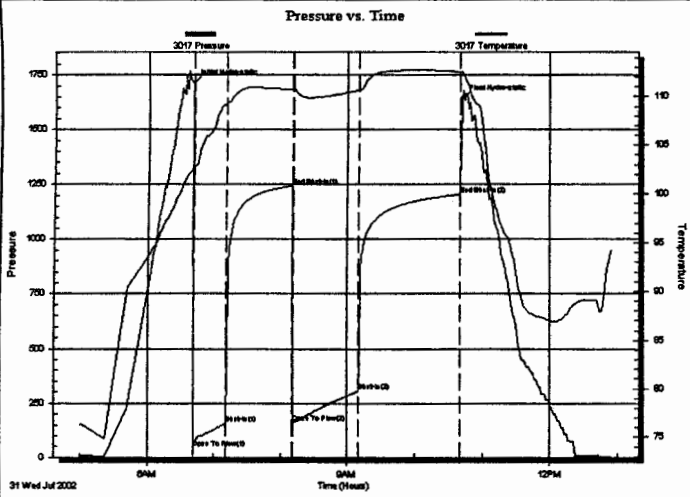
Schoen-Star Unit # 1-24
24-11s-20w
Job Ticket: 16485 **DST#: 3**
Test Start: 2002.07.31 @ 05:00:04

GENERAL INFORMATION:

Formation: **L-Kc.- J&K**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 06:41:34
Time Test Ended: 12:54:34
Interval: **3440.00 ft (KB) To 3480.00 ft (KB) (TVD)**
Total Depth: **3480.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **John Schmidt**
Unit No: **18**
Reference Elevations: **1988.00 ft (KB)**
1983.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 3017 **Inside**
Press@RunDepth: **305.27 psig @ 3444.01 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2002.07.31** End Date: **2002.07.31** Last Calib.: **2002.07.31**
Start Time: **05:00:05** End Time: **12:54:34** Time On Btm: **2002.07.31 @ 06:40:34**
Time Off Btm: **2002.07.31 @ 10:41:34**

TEST COMMENT: IF-Strong B.O.B. in 7 min. ISI-Good blow back 2" in.
FF- Strong B.O.B. in 9 min. FSI-blow back 1" in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.70	102.63	Initial Hydro-static
1	42.77	102.76	Open To Flow (1)
30	157.71	109.39	Shut-in(1)
90	1243.08	110.68	End Shut-in(1)
91	160.91	110.72	Open To Flow (2)
149	305.27	110.65	Shut-in(2)
240	1203.55	112.51	End Shut-in(2)
241	1642.02	112.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
840.00	gassy oil 10% gas 90 % oil	10.64
180.00	Gas in pipe	2.52

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRIOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.
250 N. Water Suite 300
Wichita, Ks. 67202
ATTN: David Doyel

Schoen-Star Unit # 1-24
24-11s-20w
Job Ticket: 16485 **DST#: 3**
Test Start: 2002.07.31 @ 05:00:04

Tool Information

Drill Pipe:	Length: 3301.00 ft	Diameter: 3.80 inches	Volume: 46.30 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 46.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3440.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.02 ft			
Tool Length:	62.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		


Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3419.00	
S.I. Tool	5.00			3424.00	
HMV	5.00			3429.00	
Safety Joint	2.00			3431.00	
Packer	4.00			3435.00	22.00 Bottom Of Top Packer
Packer	5.00			3440.00	
Stubb	1.00			3441.00	
Perforations	3.00			3444.00	
Recorder	0.01	3017	Inside	3444.01	
Perforations	33.00			3477.01	
Recorder	0.01	13308	Outside	3477.02	
Bullnose	3.00			3480.02	40.02 Bottom Packers & Anchor

Total Tool Length: 62.02

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 <p style="font-size: 2em; margin: 0;">TRILOBITE</p> <p style="font-size: 1.5em; margin: 0;">TESTING, INC.</p>	DRILL STEM TEST REPORT		FLUID SUMMARY
	Murfin Drilling Co. 250 N. Water Suite 300 Wichita, Ks. 67202 ATTN: David Doyel	Schoen-Star Unit # 1-24 24-11s-20w Job Ticket: 16485 DST#: 3 Test Start: 2002.07.31 @ 05:00:04	

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	26 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
840.00	gassy oil 10% gas 90 % oil	10.644
180.00	Gas in pipe	2.525

Total Length: 1020.00 ft Total Volume: 13.169 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

DST Test Number: 3

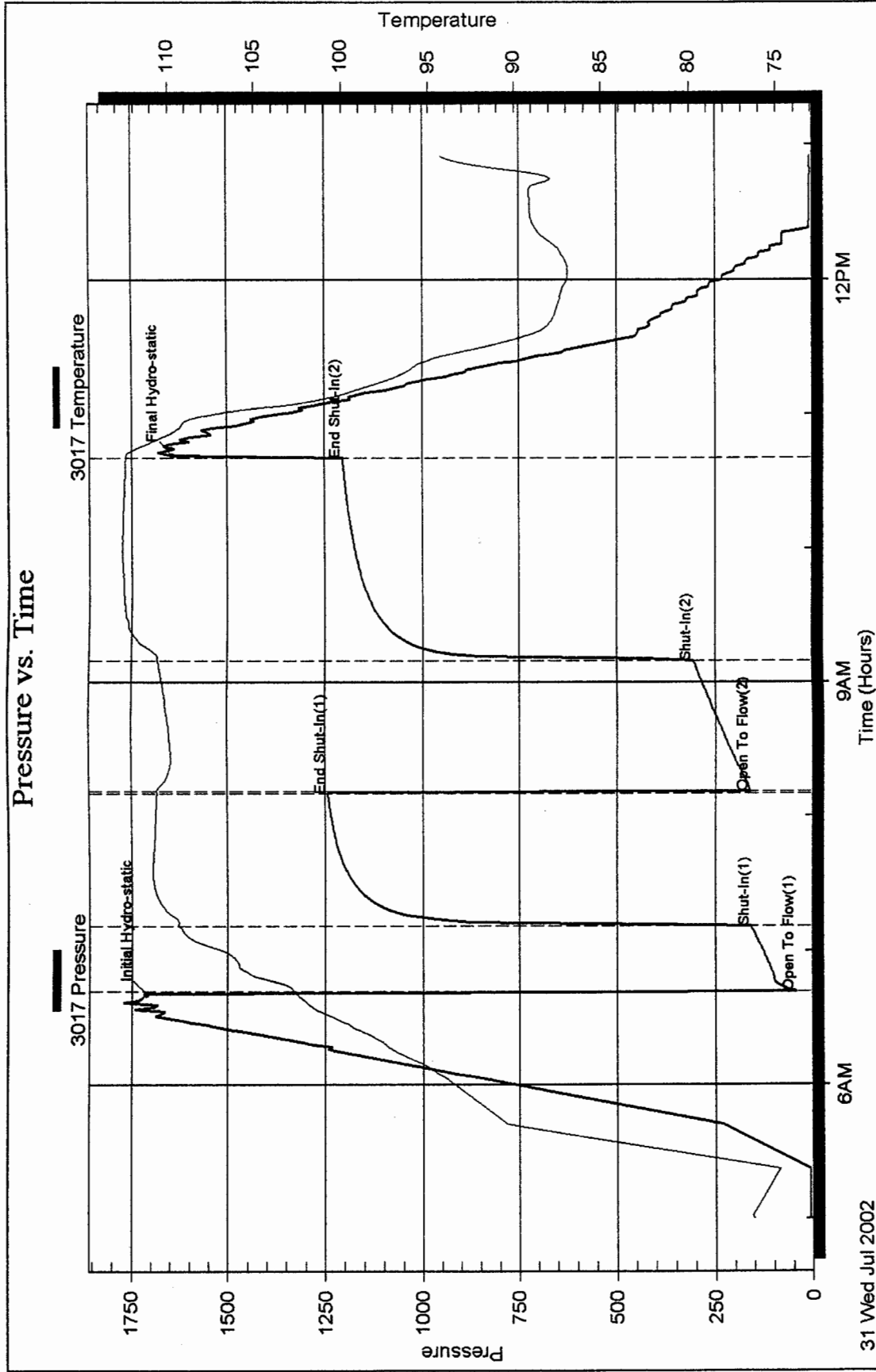
24-11s-20w

Murfin Drilling Co.

Inside

Serial #: 3017

Pressure vs. Time



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Ref. No: 16485

Trilobite Testing, Inc

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Suite 300
Wichita, Ks. 67202

ATTN: David Doyel

24-11s-20w

Schoen-Star Unit # 1-24

Start Date: 2002.08.01 @ 01:48:21

End Date: 2002.08.01 @ 08:23:51

Job Ticket #: 16486 DST #: 4

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Murfin Drilling Co.

Schoen-Star Unit # 1-24

24-11s-20w

DST # 4

Arbuckle

2002.08.01

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PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Suite 300
Wichita, Ks. 67202
ATTN: David Doyel

Schoen-Star Unit # 1-24
24-11s-20w
Job Ticket: 16486 **DST#: 4**
Test Start: 2002.08.01 @ 01:48:21

GENERAL INFORMATION:

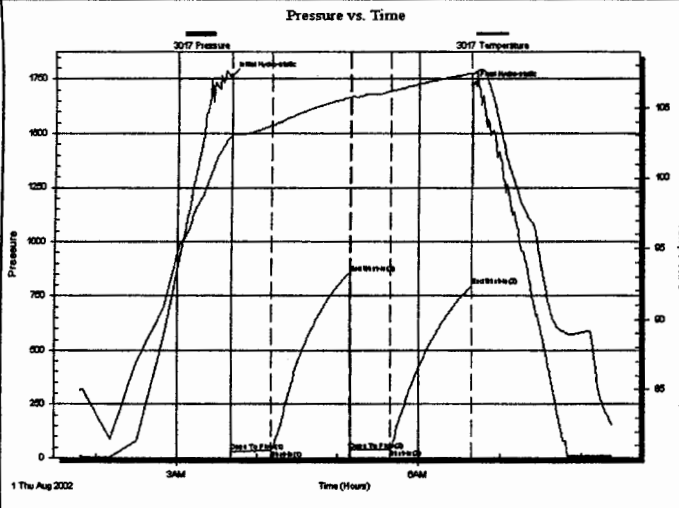
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:40:51
Time Test Ended: 08:23:51
Interval: **3494.00 ft (KB) To 3592.00 ft (KB) (TVD)**
Total Depth: **3592.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: John Schridt
Unit No: 18
Reference Elevations: 1988.00 ft (KB)
1983.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3017

Inside

Press@RunDepth: 40.35 psig @ 3500.01 ft (KB)
Start Date: 2002.08.01 End Date: 2002.08.01
Start Time: 01:48:22 End Time: 08:23:51
Capacity: 7000.00 psig
Last Calib.: 2002.08.01
Time On Btm: 2002.08.01 @ 03:40:21
Time Off Btm: 2002.08.01 @ 06:39:51

TEST COMMENT: IF-Weak Dead in 12 min.
FF-Dead



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1766.15	102.99	Initial Hydro-static
1	28.45	103.07	Open To Flow (1)
30	33.06	103.72	Shut-in(1)
89	854.33	105.72	End Shut-in(1)
90	35.48	105.77	Open To Flow (2)
119	40.35	106.17	Shut-in(2)
179	796.57	107.40	End Shut-in(2)
180	1721.95	107.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.
250 N. Water Suite 300
Wichita, Ks. 67202
ATTN: David Doyel

Schoen-Star Unit # 1-24
24-11s-20w
Job Ticket: 16486 **DST#: 4**
Test Start: 2002.08.01 @ 01:48:21

Tool Information

Drill Pipe:	Length: 3365.00 ft	Diameter: 3.80 inches	Volume: 47.20 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 32000.00 lb
			<u>Total Volume: 47.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3494.00 ft			Final 28000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.02 ft			
Tool Length:	120.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

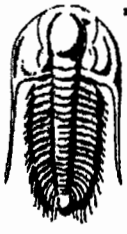
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3473.00		
S.I. Tool	5.00			3478.00		
HMV	5.00			3483.00		
Safety Joint	2.00			3485.00		
Packer	4.00			3489.00	22.00	Bottom Of Top Packer
Packer	5.00			3494.00		
Stubb	1.00			3495.00		
Perforations	4.00			3499.00		
C.O. Sub	1.00			3500.00		
Recorder	0.01	3017	Inside	3500.01		
Blank Spacing	63.00			3563.01		
C.O. Sub	1.00			3564.01		
Perforations	25.00			3589.01		
Recorder	0.01	13308	Outside	3589.02		
Bullnose	3.00			3592.02	98.02	Bottom Packers & Anchor

Total Tool Length: 120.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.
250 N. Water Suite 300
Wichita, Ks. 67202
ATTN: David Doyel

Schoen-Star Unit # 1-24
24-11s-20w
Job Ticket: 16486 DST#: 4
Test Start: 2002.08.01 @ 01:48:21

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

DST Test Number: 4

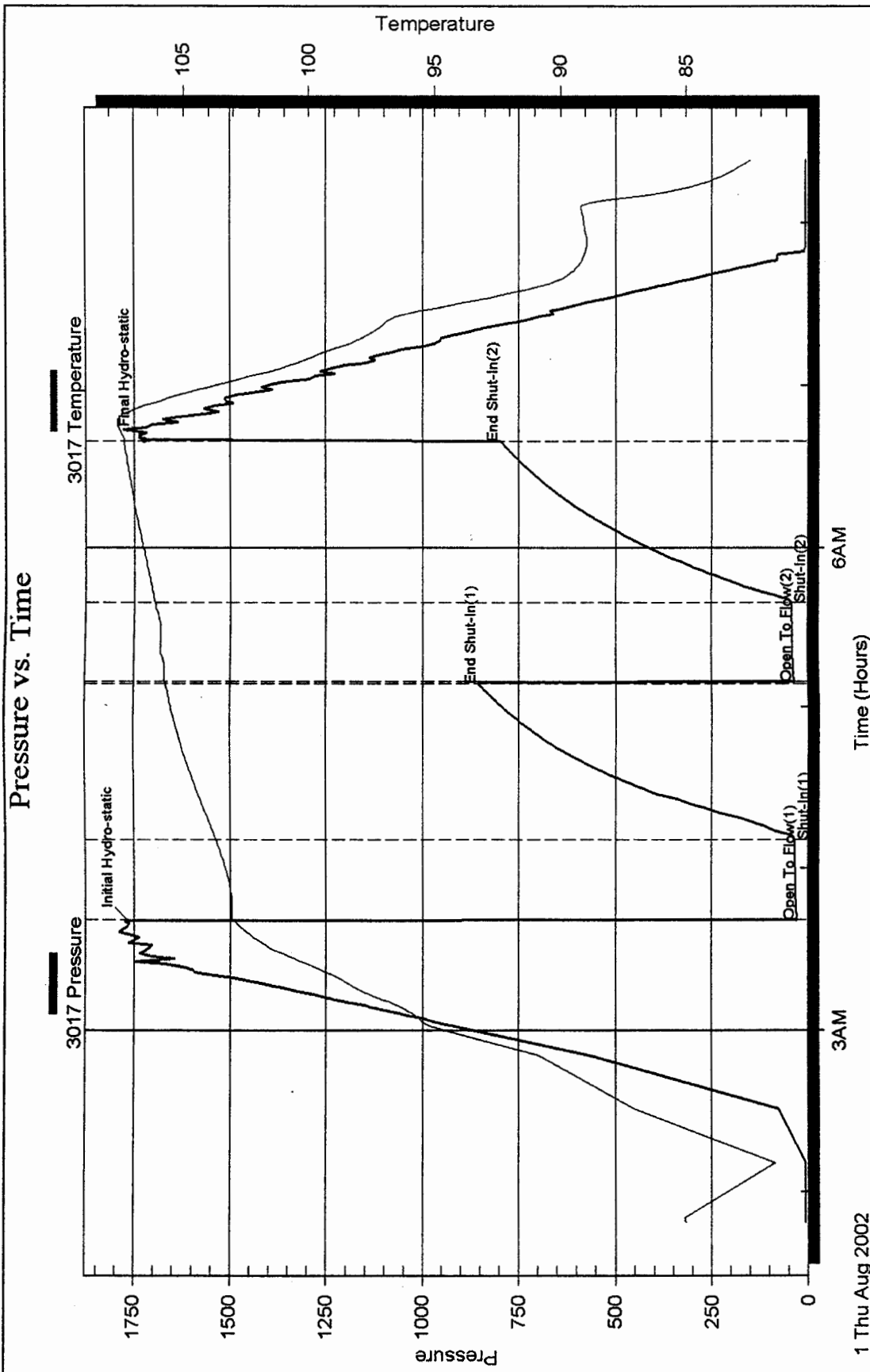
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Murfin Drilling Co.

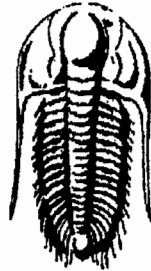
Inside

Serial #: 3017

Pressure vs. Time



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Suite 300
Wichita, Ks. 67202

ATTN: David Doyel

24-11s-20w

Schoen-Star Unit # 1-24

Start Date: 2002.08.01 @ 14:12:11

End Date: 2002.08.01 @ 21:56:11

Job Ticket #: 16487 DST #: 5

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Murfin Drilling Co. Schoen-Star Unit # 1-24 24-11s-20w DST # 5 Arbuckle 2002.08.01

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Suite 300
Wichita, Ks. 67202
ATTN: David Doyel

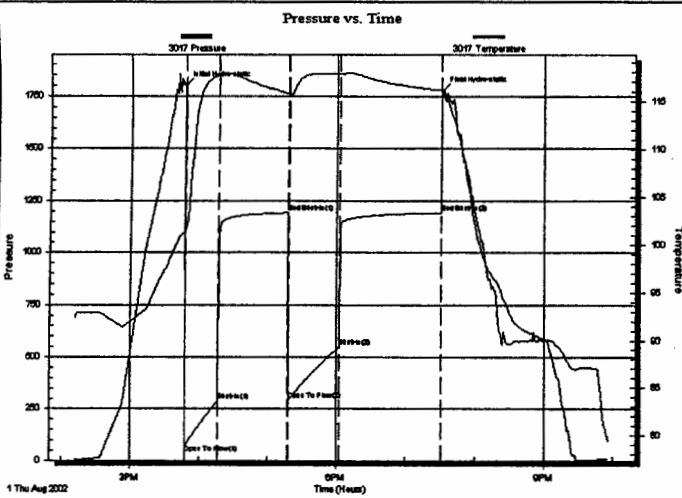
Schoen-Star Unit # 1-24
24-11s-20w
Job Ticket: 16487 **DST#: 5**
Test Start: 2002.08.01 @ 14:12:11

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:47:41
Time Test Ended: 21:56:11
Interval: **3586.00 ft (KB) To 3602.00 ft (KB) (TVD)**
Total Depth: 3602.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 18
Reference Elevations: 1988.00 ft (KB)
1983.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3017 **Inside**
Press@RunDepth: 550.18 psig @ 3587.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2002.08.01 End Date: 2002.08.01 Last Calib.: 2002.08.01
Start Time: 14:12:12 End Time: 21:56:11 Time On Btm: 2002.08.01 @ 15:46:41
Time Off Btm: 2002.08.01 @ 19:31:41

TEST COMMENT: IF-Strong B.O.B. 6 min. IS- no blow
FF-Strong B.O.B. 7 min. FS- no blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1802.46	101.23	Initial Hydro-static
1	36.42	101.30	Open To Flow (1)
30	287.78	117.64	Shut-In(1)
91	1192.11	115.76	End Shut-In(1)
92	292.67	115.77	Open To Flow (2)
136	550.18	117.76	Shut-In(2)
224	1191.95	116.15	End Shut-In(2)
225	1776.33	116.14	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1120.00	Salt Water	14.57

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

Schoen-Star Unit # 1-24

250 N. Water Suite 300
Wichita, Ks. 67202

24-11s-20w

Job Ticket: 16487

DST#: 5

ATTN: David Doyel

Test Start: 2002.08.01 @ 14:12:11


Tool Information

Drill Pipe:	Length: 3458.00 ft	Diameter: 3.80 inches	Volume: 48.51 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 125.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 35000.00 lb
			<u>Total Volume: 49.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3586.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.02 ft			
Tool Length:	38.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3565.00	
S.I. Tool	5.00			3570.00	
HMV	5.00			3575.00	
Safety Joint	2.00			3577.00	
Packer	4.00			3581.00	22.00 Bottom Of Top Packer
Packer	5.00			3586.00	
Stubb	1.00			3587.00	
Recorder	0.01	3017	Inside	3587.01	
Perforations	12.00			3599.01	
Recorder	0.01	13308	Outside	3599.02	
Bullnose	3.00			3602.02	16.02 Bottom Packers & Anchor

Total Tool Length: 38.02

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	FLUID SUMMARY
	Murfin Drilling Co. 250 N. Water Suite 300 Wichita, Ks. 67202 ATTN: David Doyel	Schoen-Star Unit # 1-24 24-11s-20w Job Ticket: 16487 DST#: 5 Test Start: 2002.08.01 @ 14:12:11

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	28000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.36 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1120.00	Salt Water	14.572

Total Length: 1120.00 ft Total Volume: 14.572 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

DST Test Number: 5

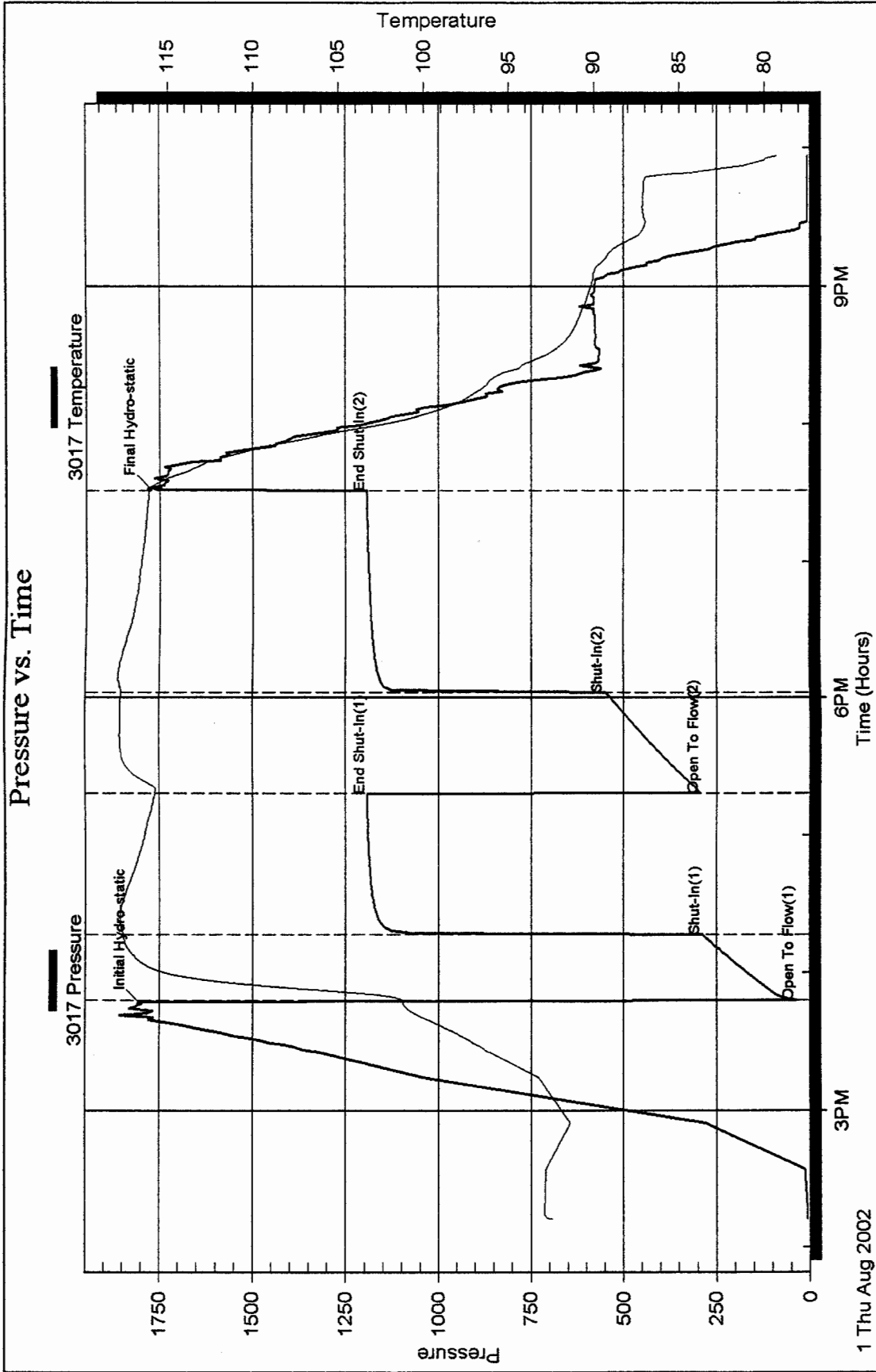
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Murfin Drilling Co.

Inside

Serial #: 3017

Pressure vs. Time



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